VAMS

Get to know more with real time volcanic information

Detect Seismic Shifts

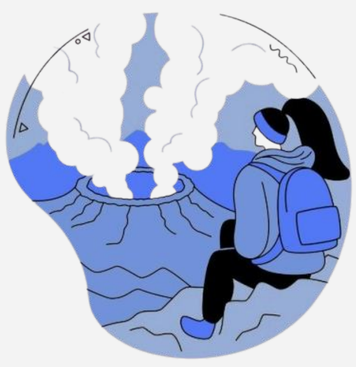
Understand the magma

Track Volcano Temperatures

Discover the Soil Secrets

Monitor Volcanic Gases

Uncover the volcano History



Vulcano information made easy

Exploring volcanoes made simple with easy-to-understand information, bringing the wonders of these natural forces right to your fingertips.

Access to free data

Get free access to comprehensive volcano data, available anytime to fuel your curiosity and research.

Stay informed with us

Stay always informed with our real-time monitorization and insight on volcanic activity.

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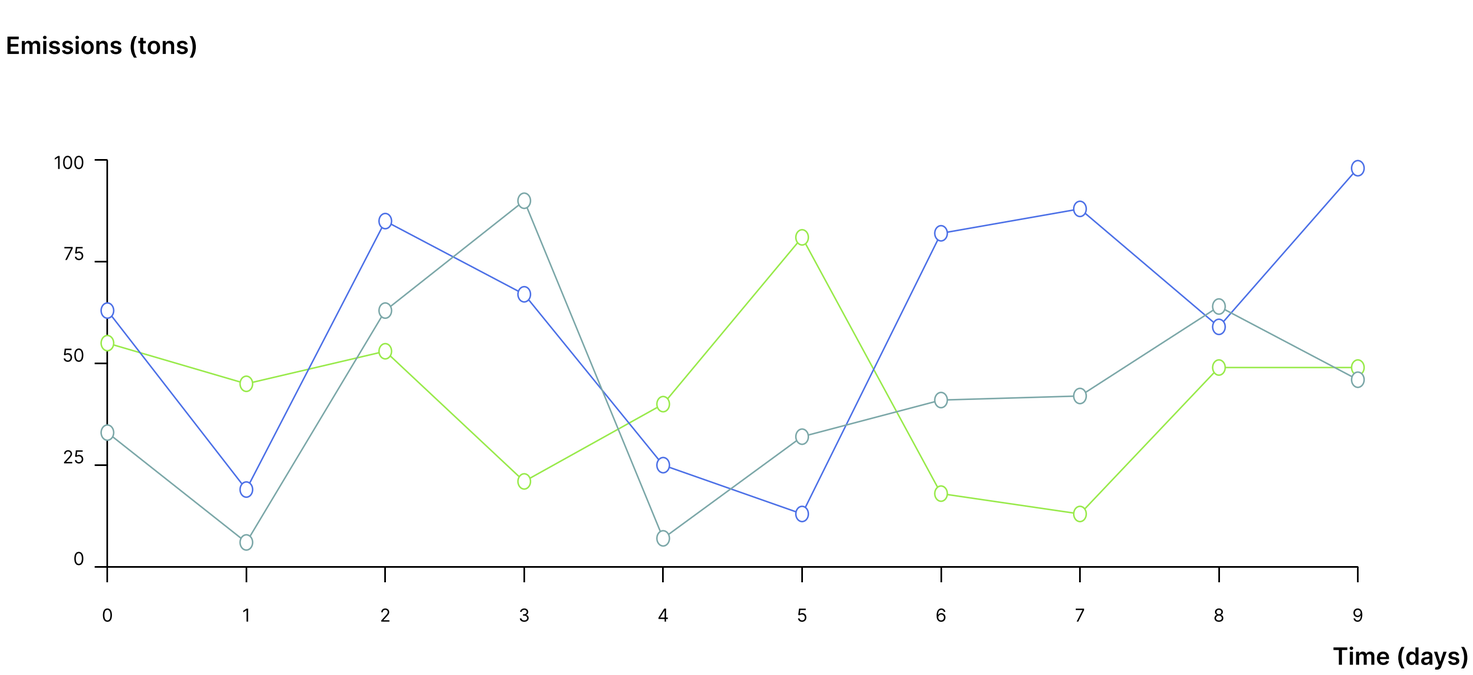
Gases Emission viewer

Select Volcano: Sta. Barbara

Start: DD-MM-YYYY End: DD-MM-YYYY



Gases
- [x] H_2S
- [x] CO_2
- [x] SO_2
- [ ] HCl

Indicators

H_2S	5	5-1k	~1k
CO_2	500	~1k	~10k
SO_2	10	500-1k	~100k
HCl	10	10-100	~100

Information

Here in this page you can see all information about the gases emission over time, you can download the dataset, with your given filters.

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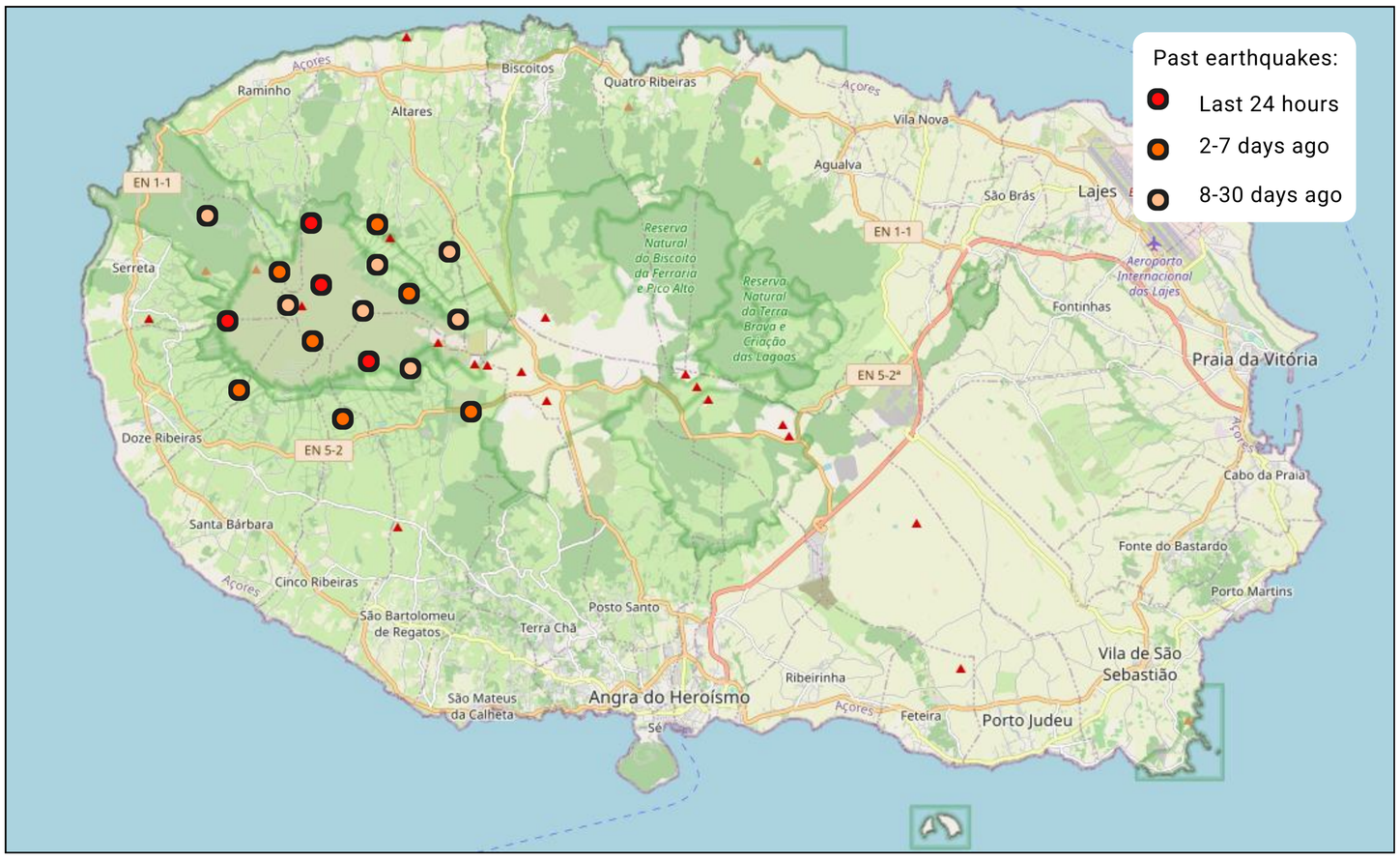
Earthquake viewer page

Select Volcano: Sta. Barbara



Date/Hour (UTC)	Latitude	Longitude	Depth	Magnitude	Location	Source
2024-10-11 07:18:42	38.748 N	-27.349 W	1.8 km	2.8	Serra Sta. Bárbara	VAMS
2024-10-09 12:22:55	38.726 N	-27.309 W	0.9 km	3.6	Serra Sta. Bárbara	VAMS
2024-10-08 17:16:09	38.724 N	-27.271 W	1.3 km	3.2	Serra Sta. Bárbara	VAMS
2024-10-08 07:19:11	38.732 N	-27.269 W	1.5 km	2.4	Serra Sta. Bárbara	VAMS
2024-10-06 04:47:30	38.719 N	-27.328 W	0.6 km	3.9	Serra Sta. Bárbara	VAMS
2024-10-04 00:54:39	38.714 N	-27.355 W	1.7 km	2.1	Serra Sta. Bárbara	VAMS
2024-10-03 12:52:53	38.750 N	-27.281 W	1.1 km	3.5	Serra Sta. Bárbara	VAMS
2024-10-02 21:20:25	38.723 N	-27.288 W	1.6 km	2.9	Serra Sta. Bárbara	VAMS
2024-10-02 11:52:12	38.719 N	-27.355 W	1.2 km	3.3	Serra Sta. Bárbara	VAMS
2024-10-02 04:49:21	38.715 N	-27.329 W	0.8 km	2.7	Serra Sta. Bárbara	VAMS

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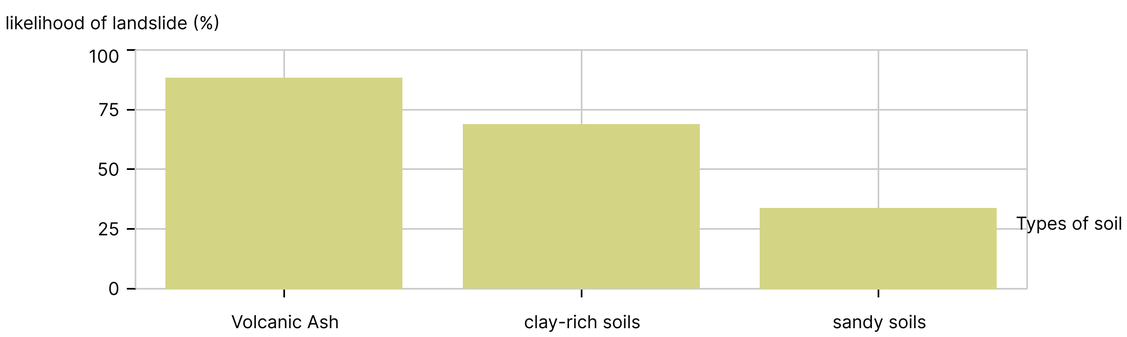
Information

Here in this page you can see all information about the earthquakes over time, you can download the dataset here.

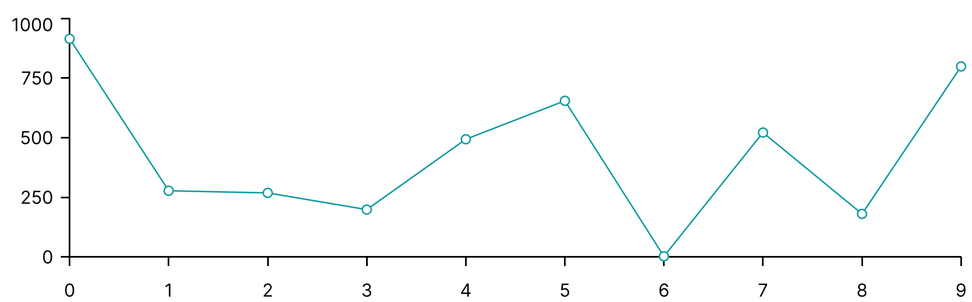
Soil Information

Select Volcano: Sta. Barbara

Relationship Between Soil Stability and Lahar Occurrence



Erosion Rates on Volcanic Slopes



Information

Here in this page you can see all information about the changes on the soil of Santa Barabara Vulcano and its composition, you can download the dataset.

The Santa Bárbara Volcano

Select Volcano: Sta. Barbara

The Santa Bárbara Volcano is located at the western end of the island of Terceira and corresponds to a polygenetic volcano with a caldera, partially filled by numerous domes and trachytic coulées.

This volcano has two approximately concentric calderas. The external caldera has a diameter of 2.5 by 2 km and is the result of a collapse phenomenon that occurred between 30,000 and 25,000 years ago. The formation of the most recent internal caldera took place less than 10,000 years ago. Subsequently, this caldera was the scene of several eruptions that caused its partial filling.

The eruptive history of the Santa Bárbara Volcano indicates an evolution from a shield volcano to a conical edifice of a more explosive nature. It presents almost a hundred eruptive centers located in the caldera and on its N, NW and E slopes, defining alignments of domes and coulées with a general WNW-ESE and NW-SE orientation, and some scattered scoria cones. In the last 20,000 years, 30 basaltic and trachytic eruptions have been identified, the most recent corresponding to the historic eruption of 1761, located on the E slope, during which 8 small trachytic domes and coulées were formed, called Black Mysteries.

Year	Eruption Type	VEI	Description
1761	Fissure Eruption	3	Eruption along a fissure, resulting in lava flows and minor explosive activity.
1763	Fissure Eruption	3	Continued activity with significant lava emissions.
1803	Strombolian	2	Moderate eruption characterized by explosive bursts and lava fountains.
1840	Plinian	4	Major explosive eruption with extensive ash fall and pyroclastic flows.
1849	Fissure Eruption	2	Minor lava flows with low explosive activity.
1870	Vulcanian	3	Explosive eruption with ash clouds affecting the surrounding areas.
1956	Effusive	1	Non-explosive eruption with slow-moving lava flows.
1997	Fissure Eruption	2	Minor eruption along a fissure, resulting in lava and ash emissions.
2001	Strombolian	2	Small eruption characterized by intermittent explosive activity.
2016	Fissure Eruption	2	Low-level eruptive activity with minimal impact on the surrounding areas.

Weather viewer

Select Volcano: Sta. Barbara

25-7-2024

Sta. Bárbara

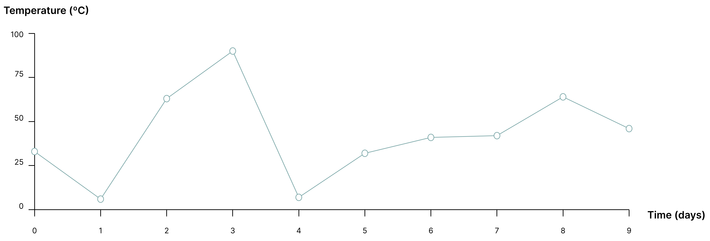
25.5ºC

Humidity: 76%
Pressure: 1012.1 MB
Wind: 15 KM/H

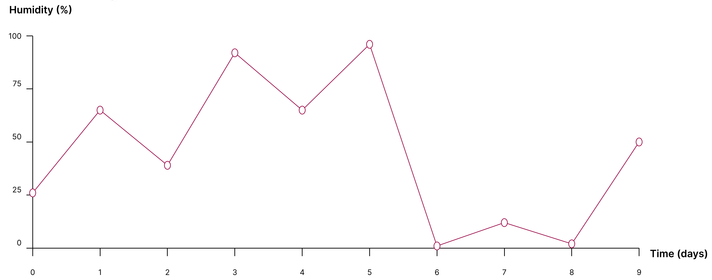
Weather records over time

Start: DD-MM-YYYY End: DD-MM-YYYY

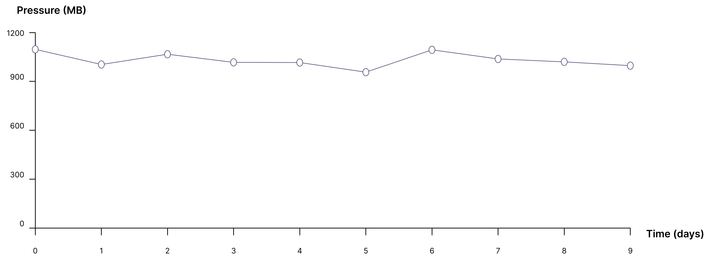
Temperature



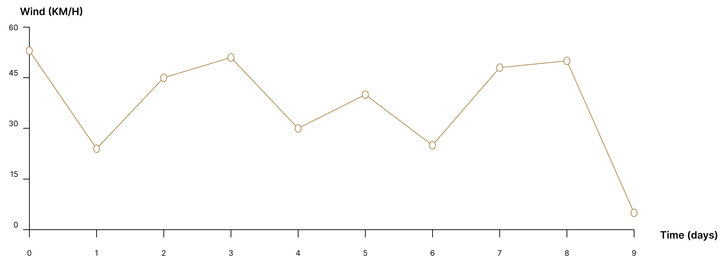
Humidity



Pressure



Wind



Information

Here in this page you can see all information about the volcano nearby weather over time, you can download the dataset, with your given filters.

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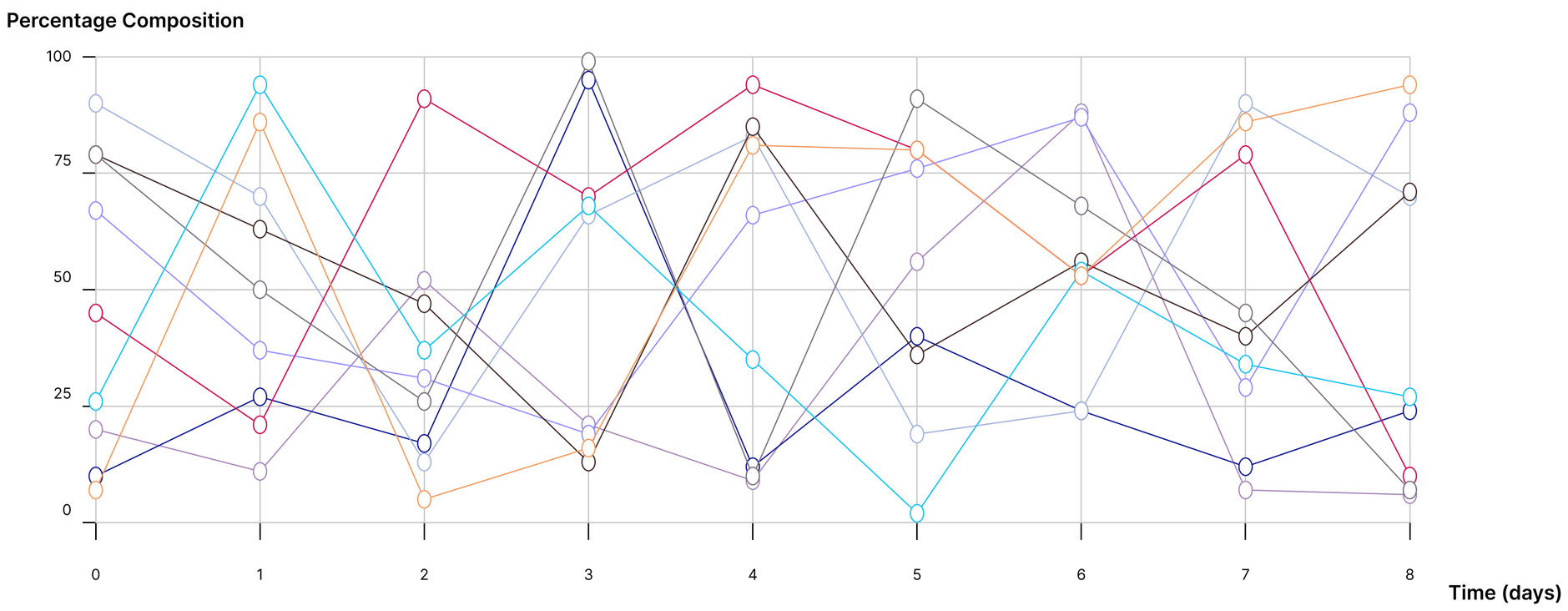
Lava viewer

Select Volcano: Sta. Barbara

Start: DD-MM-YYYY End: DD-MM-YYYY Filter



Information

Here in this page you can see all information about the gases emission over time, you can download the dataset, with your given filters.

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Download DataSet

Please select a start and end data for the data you want to download

Start: DD-MM-YYYY **End:** DD-MM-YYYY

Please select the type of data you want to download

Data

Download